

1-101. (CANCELED).

102. (CURRENTLY AMENDED) The method in accordance with claim [[101]] 115, wherein the head, the limb, the trunk motion and the respiratory motion are monitored by ~~the same~~ a single sensor arrangement.

103. (CURRENTLY AMENDED) The method in accordance with claim [[101]] 115, wherein the head, the limb, the trunk motion and the respiratory motion are monitored by separate sensor arrangements.

104. (CURRENTLY AMENDED) The method in accordance with claim [[101]] 115, wherein the motion signal is a single motion signal generated from a combination of the head, the limb, the trunk motion and the respiratory motion.

105. (CURRENTLY AMENDED) The method in accordance with claim [[101]] 115, wherein the motion signal includes a first motion signal generated from the head, the limb, and the trunk motion and a second motion signal generated from the respiratory motion.

106. (CURRENTLY AMENDED) The method in accordance with claim [[101]] 115, wherein ~~it is determined that~~ the rate of the motion signal is determined to be indicative of patient arousal if the rate of the motion signal increases beyond a predetermined threshold.

107. (CURRENTLY AMENDED) The method in accordance with claim [[101]] 115, wherein the sensor arrangement includes a pad on which the patient lies, the pad mounting a sensor for monitoring the head, the limbs, the trunk, and the respiratory motion of the patient.

108. (CURRENTLY AMENDED) The method in accordance with claim [[101]] 115, further comprising the step of providing an alarm should the motion of the patient cease to be detected.

109. (PREVIOUSLY PRESENTED) The method in accordance with claim 108, further comprising the step of providing an alarm should the motion of the patient fall below a predetermined value.

110. (CURRENTLY AMENDED) The method in accordance with claim ~~[[101]]~~ 115, further comprising the step of monitoring ~~[[the]]~~ a body temperature of the patient and providing an alarm should the body temperature one of rise above ~~[[or]]~~ and below predetermined values.

111. (CURRENTLY AMENDED) The method in accordance with claim 110, wherein a temperature sensor is one of provided proximate ~~[[or]]~~ and within the patient to constantly monitor the temperature.

112. (CURRENTLY AMENDED) The method in accordance with claim 111, wherein a control means is arranged to receive signals from the sensor arrangement and the temperature sensor, and process those signals to provide the alarms.

113. (CURRENTLY AMENDED) The method in accordance with claim 112, wherein the control means is ~~provided~~ housed in a single unit.

114. (CANCELED)

115. (CURRENTLY AMENDED) ~~The method in accordance with claim 114, wherein the non-human animal~~ A method of monitoring a patient under medical care, the method comprising steps of:

providing a sensor arrangement which is arranged to detect motion of a head, limbs and trunk of the patient, and respiratory motion of the patient and produce a motion signal in response to the motion;

monitoring the motion signal;

analysing the motion signal to determine a rate of the motion signal and determine whether the rate of the motion signal is indicative of patient arousal; and

providing an alarm should the monitored motion be indicative of patient arousal;

wherein the patient is a non-human animal which is monitored during recovery from anaesthesia or when under sedation.

116. (CANCELED)

117. (CURRENTLY AMENDED) The method in accordance with claim ~~[[101]]~~ 115, comprising the step of assessing a baseline motion rate which corresponds to the ~~motion rate~~ of the motion signal of the patient at the time the baseline assessment is made, and setting ~~[[the]]~~ a predetermined threshold at a predetermined rate above the baseline ~~level~~ motion rate.

118. (CURRENTLY AMENDED) The method in accordance with claim 107, comprising the further step of providing a separate respiratory motion arrangement for measuring the respiratory motion of the patient, and comparing a signal from the respiratory motion sensor with the signal from the pad sensor, to obtain an indication of bodily motion of the patient.

119. (CANCELED)

120. (CURRENTLY AMENDED) The device in accordance with claim ~~[[119]]~~ 133, wherein the sensor arrangement is a single sensor arrangement for detecting the head, the limb, the trunk motion and the respiratory motion.

121. (CURRENTLY AMENDED) The device in accordance with claim ~~[[119]]~~ 133, wherein the sensor arrangement includes separate sensor arrangements for monitoring the head, the limb, the trunk motion and the respiratory motion, respectively.

122. (CURRENTLY AMENDED) The device in accordance with claim ~~[[119]]~~ 133, wherein the motion signal is a single motion signal generated from a combination of the head, the limb, the trunk motion and the respiratory motion.

123. (CURRENTLY AMENDED) The device in accordance with claim ~~[[119]]~~ 133, wherein the motion signal includes a first motion signal generated from the head, the limb, and the trunk motion and a second motion signal generated from the respiratory motion.

124. (CURRENTLY AMENDED) The device in accordance with claim ~~[[119]]~~ 133, wherein the control means is arranged to determine that the

detected motion is indicative of patient arousal if the rate of the motion signal increases beyond a pre-determined threshold.

125. (CURRENTLY AMENDED) The device in accordance with claim [[119]] 133, wherein the sensor arrangement includes a pad on which the patient lies, the pad mounting a sensor for monitoring the head, the limbs, the trunk and the respiratory motion of the patient.

126. (CURRENTLY AMENDED) The device in accordance with claim [[119]] 133, wherein the control means is also arranged to process the signals from the motion monitor to determine whether the motion of the patient has ceased and to produce an alarm if the motion of the patient ceases.

127. (CURRENTLY AMENDED) The device in accordance with claim 126, wherein the device ~~is arranged to provide~~ provides an alarm should the motion signal indicate that the motion of the patient has fallen below a predetermined level.

128. (PREVIOUSLY PRESENTED) The device in accordance with claim 127 including input means enabling the predetermined level to be set.

129. (CURRENTLY AMENDED) The device in accordance with claim [[119]] 133, the control means being automatically arranged to provide default settings for the predetermined level.

130. (CURRENTLY AMENDED) The device in accordance with claim [[119]] 127, including a baseline set means, which when actuated, presets a baseline motion rate which corresponds to the motion rate of the patient at the time the baseline set ~~function~~ means is actuated, the predetermined level being taken from the baseline level.

131. (CURRENTLY AMENDED) The device in accordance with claim [[119]] 133, wherein the control means is arranged to receive input from a temperature sensor sensing ~~[[the]]~~ a body temperature of the patient, and is

arranged to provide an alarm should the patient's body temperature fall outside predetermined values.

132. (CANCELED)

133. (CURRENTLY AMENDED) ~~The device in accordance with claim 132, wherein~~ A device for monitoring a patient under medical care, the device comprising a sensor arrangement which is arranged to detect motion of a head, limbs and trunk of the patient, and a respiratory motion of the patient and produce a motion signal in response to the motion, and a control means which is arranged to process signals received from the sensor arrangement and analyse the motion signal to determine a rate of the motion signal and determine whether the rate of the motion signal is indicative of patient arousal, and to provide an alarm should the detected motion be indicative of patient arousal;

wherein the device is used with a non-human animal patient, and the control means and a display for providing a visual indication of patient parameters are mounted in a housing which is adapted to be mounted to a cage for containing the non-human animal patient.

134. (CANCELED)

135. (CURRENTLY AMENDED) The device in accordance with claim 125, comprising a further sensor arrangement for monitoring the respiratory motion of the patient, the control means being arranged to compare ~~[[the]]~~ a signal from the further sensor arrangement and the signal from the sensor arrangement, to give an indication of the bodily motion of the patient.

136. (CURRENTLY AMENDED) ~~The system for monitoring non-human animal patients recovering from anaesthesia, comprising a plurality of devices in accordance with claim 132, wherein~~ A device for monitoring a patient under medical care, the device comprising a sensor arrangement which is arranged to detect motion of a head, limbs and trunk of the patient, and a respiratory motion of the patient and produce a motion signal in response to the motion, and a

control means which is arranged to process signals received from the sensor arrangement and analyse the motion signal to determine a rate of the motion signal and determine whether the rate of the motion signal is indicative of patient arousal, and to provide an alarm should the detected motion be indicative of patient arousal;

wherein the device is used with a non-human animal patient, and the sensor arrangement being is mounted in each case in a cage for retaining an animal recovering from anaesthesia.

137. (CURRENTLY AMENDED) The method in accordance with claim [[119]] 115, wherein further comprising the step of analyzing the motion of the patient ~~involves~~ by tracking the rate of motion over a period of time.

138. (CURRENTLY AMENDED) The method in accordance with claim 137, comprising the further step of applying trend analysis to monitor trends in the motion of the patient.

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160. (CURRENTLY AMENDED) The method in accordance with claim ~~[[101]]~~ 115, comprising the further step of controlling a peripheral device depending upon the motion of the patient.

161. (CURRENTLY AMENDED) The device in accordance with claim ~~[[119]]~~ 136, further comprising a means for controlling a peripheral device, depending upon the motion of the patient.

162. (CURRENTLY AMENDED) The method in accordance with claim ~~[[101]]~~ 115, wherein the step of monitoring the motion signal includes ~~[[the]]~~ a step of monitoring the motion signal for an increase in the rate of motion of the patient over a baseline motion rate, wherein the increase in the motion may be due to motion of at least one or both of bodily of the head, the limbs and the trunk of the patient, and the respiratory motion of the patient.

163. (CURRENTLY AMENDED) The device in accordance with claim ~~[[119]]~~ 136, the control means being arranged to monitor for an increase in the motion signal over a baseline rate of motion, wherein the increase in the motion ~~may be~~ signal is due to the motion of at least one or both of bodily motion the head, the limbs and the trunk of the patient and the respiratory motion of the patient.

164. (CURRENTLY AMENDED) The method in accordance with claim ~~[[101]]~~ 115, wherein the step of monitoring the motion of a patient is carried out when the patient is recovering from a medical procedure.

165. (CANCELED)

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166. (CANCELED)